

[0021] 7. To set for automatic detection of high/low volume changes and compensate by toggling to high or low volume pre-sets, press the automatic button. This engages the automatic detection and adjustment mechanism and software. Sound levels are then automatically detected and toggled between high and low settings as described.

[0022] 8. Press the automatic button again to release the automated button and enable manual toggling between pre-set volume settings.

[0023] As alternatives, the buttons and adjustments could be placed directly on the control panel of the electronic device (TV, stereo, etc), rather than or in addition to placement on a remote control device. The toggle buttons could be replaced with a toggle switch, dial, rocker switch or other similar electronic switching device. These buttons and adjustments could also be represented by software icons on-screen and engaged using a pointer, mouse or other such device. Additionally, the functionality could be changed by adding the functionality to software and imbedding it in the on-screen, software controlled functions. Volume and toggle buttons could also be replaced with switches, rocker switches, dials, or other similar electronic devices.

[0024] The functionality might also be build into any media equipment, for example:

[0025] Teleconferencing equipment where volume swings due to various multi-site participants render it difficult to hear some portions, and render others too loud.

[0026] Telephonic devices where it is desired to adjust volumes up or down between pre-set high and low volume settings.

[0027] Hearing aids where the described controls are on the device, or on a personal device like a phone, electronic pad or computer which is linked to the hearing aid via blue-tooth or other means.

[0028] Theater presentations where adjustments are desired between loud and quiet sections of entertainment.

[0029] Music concerts or other such presentations where it is desired to adjust volumes between lower and higher settings for various reasons.

[0030] Automobiles where it is useful to be able to reduce volumes at times (for example where it desired to talk, hear sirens or other events on the road) and then increase volumes to pre-set desired levels.

[0031] Personal music devices where at times it is necessary to lower volumes for conversation or hearing, and then adjust to high pre-set volume when desired.

[0032] Personal computers or electronic pads for playing video, music or sounds, where volume adjustments can be built into sound management software in the manner described here.

[0033] Music headsets could include the described volume toggling switches, where the described controls are on the device, or on a personal device like a phone, electronic pad or computer which is linked to the headset via blue-tooth or other means.

## DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

### Remote Control Audio Volume Toggle Switches

[0034] FIG. 1 displays the arrangement of volume up button, volume down button, the toggle switch between high and low volume settings, and the automated volume control button

1. Preset high-side and low-side volume settings, which are set by the listener as a customized range for loud and soft portions of audio entertainment as described herein. The hi-side setting is established by the listener during the softer portions of the programming, where it is desirable to increase the audio volume. The low-side volume setting is established by the listener during the louder portions of the programming, where it is desirable to reduce the audio volume. These high-side and low-side settings are “remembered”, or programmed into the remote control or other device once customized by the listener as described. These settings can also be erased and reset as needed. The programming of these listener settings can be stored in a remote control or other device.

2. A toggle switch or button which alternates between the high-side and low-side settings described above and in this invention. The toggle is pressed or otherwise engaged by the listener to switch to louder or softer sound levels as needed, alternating each time the toggle switch or button is briefly engaged. The toggle switch or button is also used as the reset mechanism by pressing for longer periods than the brief toggle switch pressing. After this reset, the high-side and low-side settings can be reestablished.

3. An automatic setting to detect high audio volume (which triggers toggle to low-side volume setting) and low audio volumes (which triggers toggle to high-side volume settings). This automatic setting is engaged by a detector in the remote control unit or other device, which is programmed to determine that the sound volumes are either too loud or above the preset sound range (which will cause an automatic toggle to the preset low-side volume setting) or too soft or below the preset sound range (which will cause an automatic toggle to the preset high-side volume setting).

Many features have been listed with particular configurations, options, and embodiments. Any one or more of the features described may be added to or combined with any of the other embodiments or other standard devices to create alternate combinations and embodiments. Therefore, it is noted that various preferred embodiments of the present invention employ differing combinations of the optional and necessary components of the present invention.

Those skilled in the art will appreciate that various adaptations and modifications of the just-described preferred embodiments can be configured without departing from the scope and spirit of the invention. Therefore, it is to be understood that, within the scope of the appended claims, the invention may be practiced other than as specifically described herein.

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